CD23 Antibody [clone FCER2/3592] (V7565)

| Catalog No.	Formulation	Size
V7565-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7565-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7565SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7565IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

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Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	FCER2/3592
Purity	Protein G affinity chromatography
UniProt	P06734
Localization	Cell surface, cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CD23 antibody is available for research use only.
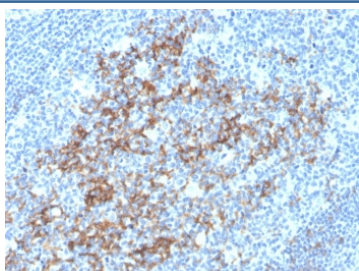
IHC staining of FFPE human tonsil with CD23 antibody (clone FCER2/3592). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.
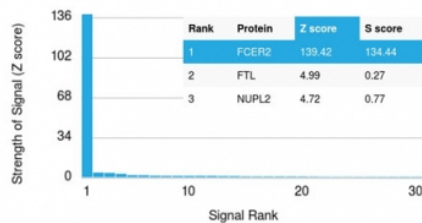
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD23 antibody (clone FCER2/3592). These results demonstrate the foremost specificity of the FCER2/3592 mAb.

Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.
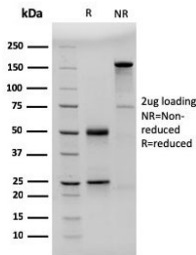
SDS-PAGE analysis of purified, BSA-free CD23 antibody (clone FCER2/3592) as confirmation of integrity and purity.

Description

The protein recognized by this MAb is identified as human leukocyte differentiation antigen CD23 (FCE2). It is a type II integral membrane glycoprotein that is expressed on mature B cells, monocytes, eosinophils, platelets and dendritic cells. CD23 is a low affinity IgE receptor that mediates IgE-dependent cytotoxicity and phagocytosis by macrophages and eosinophils. CD23 associates as an oligomer where cooperative binding of at least two lectin domains is required for high affinity IgE binding to CD23. It may play a role in antigen presentation by B cells by interacting with CD40. CD23 has been shown to be associated with the Fyn tyrosine kinase. The truncated molecule can be secreted, then function as a potent mitogenic growth factor. CD23 is expressed on a subpopulation of peripheral blood cells, B-lymphocytes and on EBV transformed B lymphoblastoid cell lines. CD23 is also detected in neoplastic cells from cases of B cell chronic lymphocytic leukemia and some cases on centroblastic/centrocytic lymphoma.

Application Notes

Optimal dilution of the CD23 antibody should be determined by the researcher.
1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A recombinant human FCER2/CD23 protein fragment within amino acids 48-321 was used as the immunogen for the CD23 antibody.

Storage

Store the CD23 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).